

GenCore version 5.1.3  
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OM protein - protein search, using sw model

Run on: December 19, 2002, 14:53:42 ; Search time 16 Seconds  
(without alignments)  
1044.514 Million cell updates/sec

Title: US-08-813-323b-2

Perfect score: 3008  
Sequence: 1 MESSKKMDSFGALQTNPLK.....TKDPTFTKIVYDSDLPDP 568

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Database : Issued Patents AA:\*

1: /cgn2\_6/ptodata/1/1aa/5A.COMB.pep: \*  
2: /cgn2\_6/ptodata/1/1aa/5B.COMB.pep: \*  
3: /cgn2\_6/ptodata/1/1aa/6A.COMB.pep: \*  
4: /cgn2\_6/ptodata/1/1aa/6B.COMB.pep: \*  
5: /cgn2\_6/ptodata/1/1aa/PCBUS.COMB.pep: \*  
6: /cgn2\_6/ptodata/1/1aa/backfile1.pep: \*

Pred. NO. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

| Result No. | Score  | Query Match | Length | DB ID | Description       |
|------------|--------|-------------|--------|-------|-------------------|
| 1          | 2831.5 | 94.1        | 543    | 4     | US-08-697-610-2   |
| 2          | 2831.5 | 94.1        | 543    | 4     | US-08-349-357-2   |
| 3          | 2251   | 74.8        | 438    | 4     | US-09-268-544B-36 |
| 4          | 1692.5 | 56.3        | 347    | 4     | US-09-268-544B-38 |
| 5          | 1253.5 | 41.7        | 558    | 4     | US-09-138-277C-1  |
| 6          | 1192.5 | 39.6        | 557    | 4     | US-09-138-277C-3  |
| 7          | 1118   | 37.2        | 228    | 4     | US-09-181-958-2   |
| 8          | 837.5  | 27.8        | 501    | 1     | US-08-331-394-4   |
| 9          | 837.5  | 27.8        | 501    | 1     | US-08-250-858-4   |
| 10         | 837.5  | 27.8        | 501    | 1     | US-08-446-915-4   |
| 11         | 837.5  | 27.8        | 501    | 1     | US-08-744-139-4   |
| 12         | 837.5  | 27.8        | 501    | 5     | PCR-US95-06639-4  |
| 13         | 628    | 20.9        | 409    | 1     | US-08-331-394-2   |
| 14         | 628    | 20.9        | 409    | 1     | US-08-250-858-2   |
| 15         | 628    | 20.9        | 409    | 1     | US-08-446-915-2   |
| 16         | 628    | 20.9        | 409    | 2     | US-08-744-139-2   |
| 17         | 628    | 20.9        | 409    | 5     | PCR-US95-06639-2  |
| 18         | 563.5  | 18.7        | 417    | 3     | US-08-705-771-18  |
| 19         | 560.5  | 18.6        | 420    | 2     | US-08-691-814B-2  |
| 20         | 553    | 18.4        | 522    | 1     | US-08-639-237-2   |
| 21         | 553    | 18.4        | 522    | 1     | US-08-975-405-2   |
| 22         | 546.5  | 18.2        | 243    | 4     | US-09-181-958-1   |
| 23         | 435    | 14.5        | 80     | 2     | US-08-691-814B-29 |
| 24         | 381    | 12.7        | 73     | 2     | US-08-691-814B-33 |
| 25         | 328    | 10.9        | 56     | 2     | US-08-691-814B-25 |
| 26         | 314    | 10.4        | 56     | 2     | US-08-691-814B-24 |
| 27         | 306    | 10.2        | 80     | 2     | US-08-691-814B-31 |

|    |       |     |      |   |                   |                   |
|----|-------|-----|------|---|-------------------|-------------------|
| 28 | 294   | 9.8 | 80   | 2 | US-08-691-814B-30 | Sequence 30, Appl |
| 29 | 260   | 8.6 | 46   | 2 | US-08-691-814B-15 | Sequence 15, Appl |
| 30 | 249   | 8.3 | 46   | 4 | US-09-052-089A-10 | Sequence 10, Appl |
| 31 | 210   | 7.0 | 67   | 2 | US-08-691-814B-32 | Sequence 32, Appl |
| 32 | 186   | 6.2 | 70   | 2 | US-08-691-814B-35 | Sequence 35, Appl |
| 33 | 181.5 | 6.0 | 70   | 2 | US-08-691-814B-34 | Sequence 34, Appl |
| 34 | 144.5 | 4.8 | 606  | 4 | US-08-477-831C-2  | Sequence 2, Appl  |
| 35 | 144.5 | 4.8 | 1104 | 2 | US-08-327-832-5   | Sequence 5, Appl  |
| 36 | 144.5 | 4.8 | 1104 | 2 | US-08-828-584-5   | Sequence 10, Appl |
| 37 | 143.5 | 4.8 | 3248 | 1 | US-08-353-700-1   | Sequence 1, Appl  |
| 38 | 143.5 | 4.8 | 3248 | 5 | PCR-US95-16216-1  | Sequence 6, Appl  |
| 39 | 140   | 4.7 | 2482 | 1 | US-08-328-254-6   | Sequence 11, Appl |
| 40 | 139.5 | 4.6 | 631  | 4 | US-08-477-831C-11 | Sequence 4, Appl  |
| 41 | 132.5 | 4.4 | 419  | 3 | US-09-100-391-4   | Sequence 10, Appl |
| 42 | 132.5 | 4.4 | 582  | 3 | US-09-100-391-10  | Sequence 17, Appl |
| 43 | 132.5 | 4.4 | 712  | 2 | US-08-468-576B-17 | Sequence 17, Appl |
| 44 | 132.5 | 4.4 | 712  | 2 | US-08-468-579B-17 | Sequence 17, Appl |
| 45 | 132.5 | 4.4 | 712  | 3 | US-08-468-577B-17 | Sequence 17, Appl |

## ALIGNMENTS

RESULT 1  
US-08-697-610-2  
; Sequence 2, Application US/08697610  
; Patent No. 6172187  
GENERAL INFORMATION:  
APPLICANT: Reed, John C.  
APPLICANT: Sato, Takaaki  
TITLE OF INVENTION: CD40 Associated Proteins  
NUMBER OF SEQUENCES: 17  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Campbell and Flores  
STREET: 4370 La Jolla Village Drive, Suite 700  
CITY: San Diego  
STATE: California  
COUNTRY: USA  
ZIP: 92122  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/697,610  
FILING DATE:  
CLASSIFICATION: 530  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/349,357  
FILING DATE: 02-DEC-1994  
ATTORNEY/AGENT INFORMATION:  
NAME: Campbell, Cathryn A.  
REGISTRATION NUMBER: 31,815  
REFERENCE/DOCKET INFORMATION:  
TELEPHONE: (619) 535-9001  
TELEFAX: (619) 535-8949  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 543 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-697-610-2

Query Match 94.1%; Score 2831.5; DB 4; Length 543;  
Best Local Similarity 95.2%; Pred. No. 2.2e-245;  
Matches 541; Conservative 0; Mismatches 2; Indels 25; Gaps 1;  
QY 1 MESSKKMDSFGALQTNPLKLTHTDRSAGTPVPEGGGKKEKFKVTVDEKVCCECHLV 60  
DB 1 MESSKKMDSFGALQTNPLKLTHTDRSAGTPVPEGGGKKEKFKVTVDEKVCCECHLV 60

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QY 61 CSPKQTEGHRFCESCMALLSSSPKCTACQESTIVKDKVFNCKRREIILALQIYCRNE 120
; 61 CSPKQTEGHRFCESCMALLSSSPKCTACQESTIVKDKVFNCKRREIILALQIYCRNE 120
Db 61 CSPKQTEGHRFCESCMALLSSSPKCTACQESTIVKDKVFNCKRREIILALQIYCRNE 120
QY 121 SRGCAEQLTGLHLVHLKNDCHFEELPCVRPDKCEKYLKDLRDHVAKCYREATCSHC 180
; 121 SRGCAEQLTGLHLVHLKNDCHFEELPCVRPDKCEKYLKDLRDHVAKCYREATCSHC 180
Db 121 SRGCAEQLTGLHLVHLKNDCHFEELPCVRPDKCEKYLKDLRDHVAKCYREATCSHC 180
QY 181 KSOVPMIALQKHEDTDCPCVVVSCPHKCSVOYLRLSELSAHLSECVNAPSTCSFKRYGCV 240
; 181 KSOVPMIALQKHEDTDCPCVVVSCPHKCSVOYLRLSELSAHLSECVNAPSTCSFKRYGCV 240
Db 181 KSOVPMIALQKHEDTDCPCVVVSCPHKCSVOYLRLSELSAHLSECVNAPSTCSFKRYGCV 240
QY 241 FQGTNOQIKAHASSAVQVHNLKEMSNLSLEKVSLLQNESVEKNKSIOSLHNOICSPFI 300
; 241 FQGTNOQIKAHASSAVQVHNLKEMSNLSLEKVSLLQNESVEKNKSIOSLHNOICSPFI 300
Db 241 FQGTNOQIKAHASSAVQVHNLKEMSNLSLEKVSLLQNESVEKNKSIOSLHNOICSPFI 300
QY 301 EIEROKEMLRNNESKILHLQVVIDSOAEKLELDEIRPFROMNEADSMKSVSIESLQNR 360
; 301 EIEROKEMLRNNESKILHLQVVIDSOAEKLELDEIRPFROMNEADSMKSVSIESLQNR 360
Db 301 EIEROKEMLRNNESKILHLQVVIDSOAEKLELDEIRPFROMNEADSMKSVSIESLQNR 360
QY 361 VTELESVDKSAGVARNGLLESQSLSRHDOMLSYHDIRLADMULRFOVLETAASYNGVLIM 420
; 361 VTELESVDKSAGVARNGLLESQSLSRHDOMLSYHDIRLADMULRFOVLETAASYNGVLIM 420
Db 361 VTELESVDKSAGVARNGLLESQSLSRHDOMLSYHDIRLADMULRFOVLETAASYNGVLIM 420
QY 421 KIRDKRRKQEAQVNGKTLISYQPFYTGFGYKMCARVYLNGDMGKTHLSLFEVIMRG 480
; 421 KIRDKRRKQEAQVNGKTLISYQPFYTGFGYKMCARVYLNGDMGKTHLSLFEVIMRG 480
Db 421 KIRDKRRKQEAQVNGKTLISYQPFYTGFGYKMCARVYLNGDMGKTHLSLFEVIMRG 480
QY 481 EYDALLPMPFKQKVTLMMDGSSRRHLGDAFPDPNSSFFKKTGEMNIAAGCPVFAO 540
; 481 EYDALLPMPFKQKVTLMMDGSSRRHLGDAFPDPNSSFFKKTGEMNIAAGCPVFAO 540
Db 481 EYDALLPMPFKQKVTLMMDGSSRRHLGDAFPDPNSSFFKKTGEMNIAAGCPVFAO 540
QY 541 TVLENGTYIKDDTIFIKYIVDTSDLPDP 568
; 541 TVLENGTYIKDDTIFIKYIVDTSDLPDP 568
Db 541 TVLENGTYIKDDTIFIKYIVDTSDLPDP 568

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## RESULT 2

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; Sequence 2, Application US/08349357
; Patent No. 6265556
; GENERAL INFORMATION:
; APPLICANT: Reed, John C.
; TITLE OF INVENTION: CD40 Associated Proteins
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESS: Campbell and Flores
; STREET: 4370 La Jolla Village Drive, Suite 700
; CITY: San Diego
; STATE: California
; COUNTRY: USA
; ZIP: 92122
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/349,357
; FILING DATE: 02-DEC-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Campbell, Cathryn A.
; REGISTRATION NUMBER: 31,815
; REFERENCE/DOCKET NUMBER: P-LJ 1203
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 535-9001
; TELEFAX: (619) 535-8949
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 543 amino acids

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; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-349-357-2

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Query Match 94.1%; Score 2831.5; DB 4; Length 543;
Best Local Similarity 95.2%; Pred. No. 2,26-245;
Matches 541; Conservative 0; Mismatches 2; Indels 25; Gaps 1;

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QY 1 MESSKMDSPGALQTNPLKLTHTDSAGTPYFVPOGGYKREKFKYEDYKCKCKHLYL 60
; 1 MESSKMDSPGALQTNPLKLTHTDSAGTPYFVPOGGYKREKFKYEDYKCKCKHLYL 60
Db 1 MESSKMDSPGALQTNPLKLTHTDSAGTPYFVPOGGYKREKFKYEDYKCKCKHLYL 60
QY 61 CSPKQTEGHRFCESCMALLSSSPKCTACQESTIVKDKVFNCKRREIILALQIYCRNE 120
; 61 CSPKQTEGHRFCESCMALLSSSPKCTACQESTIVKDKVFNCKRREIILALQIYCRNE 120
Db 61 CSPKQTEGHRFCESCMALLSSSPKCTACQESTIVKDKVFNCKRREIILALQIYCRNE 120
QY 121 SRGCAEQLTGLHLVHLKNDCHFEELPCVRPDKCEKYLKDLRDHVAKCYREATCSHC 180
; 121 SRGCAEQLTGLHLVHLKNDCHFEELPCVRPDKCEKYLKDLRDHVAKCYREATCSHC 180
Db 121 SRGCAEQLTGLHLVHLKNDCHFEELPCVRPDKCEKYLKDLRDHVAKCYREATCSHC 180
QY 181 KSOVPMIALQKHEDTDCPCVVVSCPHKCSVOYLRLSELSAHLSECVNAPSTCSFKRYGCV 240
; 181 KSOVPMIALQKHEDTDCPCVVVSCPHKCSVOYLRLSELSAHLSECVNAPSTCSFKRYGCV 240
Db 181 KSOVPMIALQKHEDTDCPCVVVSCPHKCSVOYLRLSELSAHLSECVNAPSTCSFKRYGCV 240
QY 241 FQGTNOQIKAHASSAVQVHNLKEMSNLSLEKVSLLQNESVEKNKSIOSLHNOICSPFI 300
; 241 FQGTNOQIKAHASSAVQVHNLKEMSNLSLEKVSLLQNESVEKNKSIOSLHNOICSPFI 300
Db 241 FQGTNOQIKAHASSAVQVHNLKEMSNLSLEKVSLLQNESVEKNKSIOSLHNOICSPFI 300
QY 301 EIEROKEMLRNNESKILHLQVVIDSOAEKLELDEIRPFROMNEADSMKSVSIESLQNR 360
; 301 EIEROKEMLRNNESKILHLQVVIDSOAEKLELDEIRPFROMNEADSMKSVSIESLQNR 360
Db 301 EIEROKEMLRNNESKILHLQVVIDSOAEKLELDEIRPFROMNEADSMKSVSIESLQNR 360
QY 361 VTELESVDKSAGVARNGLLESQSLSRHDOMLSYHDIRLADMULRFOVLETAASYNGVLIM 420
; 361 VTELESVDKSAGVARNGLLESQSLSRHDOMLSYHDIRLADMULRFOVLETAASYNGVLIM 420
Db 361 VTELESVDKSAGVARNGLLESQSLSRHDOMLSYHDIRLADMULRFOVLETAASYNGVLIM 420
QY 421 KIRDKRRKQEAQVNGKTLISYQPFYTGFGYKMCARVYLNGDMGKTHLSLFEVIMRG 480
; 421 KIRDKRRKQEAQVNGKTLISYQPFYTGFGYKMCARVYLNGDMGKTHLSLFEVIMRG 480
Db 421 KIRDKRRKQEAQVNGKTLISYQPFYTGFGYKMCARVYLNGDMGKTHLSLFEVIMRG 480
QY 481 EYDALLPMPFKQKVTLMMDGSSRRHLGDAFPDPNSSFFKKTGEMNIAAGCPVFAO 540
; 481 EYDALLPMPFKQKVTLMMDGSSRRHLGDAFPDPNSSFFKKTGEMNIAAGCPVFAO 540
Db 481 EYDALLPMPFKQKVTLMMDGSSRRHLGDAFPDPNSSFFKKTGEMNIAAGCPVFAO 540
QY 541 TVLENGTYIKDDTIFIKYIVDTSDLPDP 568
; 541 TVLENGTYIKDDTIFIKYIVDTSDLPDP 568
Db 541 TVLENGTYIKDDTIFIKYIVDTSDLPDP 568

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## RESULT 3

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; Sequence 36, Application US/09268544B
; Patent No. 6410710
; GENERAL INFORMATION:
; APPLICANT: Lederman, Seth
; TITLE OF INVENTION: TRAF-3 Deletion Isoforms And Uses Thereof
; FIFE REFERENCE: 0575-58732
; CURRENT APPLICATION NUMBER: US/09/268,544B
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 36
; LENGTH: 438
; TYPE: PRT
; ORGANISM: Human
; US-09-268-544B-36

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Query Match 74.8%; Score 2251; DB 4; Length 438;
Best Local Similarity 77.1%; Pred. No. 1,7e-193;
Matches 438; Conservative 0; Mismatches 0; Indels 130; Gaps 1;

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Qy 1 MESSKKMDSGALQTNPLKLTHTDRSAGTPVPEEGGKKEKPKVTEEDKCKECHLV 60
Db 1 MESSKKMDSGALQTNPLKLTHTDRSAGTPVPEEGGKKEKPKVTEEDKCKECHLV 60
Qy 61 CSPKQTECGHRCFESCMALLSSSPKCTACQESIYKDVFKDNCKREILALQIYCRNE 120
Db 61 CSPKQTECGHRCFESCMALLSSSPKCTACQESIYKDVFKDNCKREILALQIYCRNE 120
Qy 121 SRGCAQTLTGHLVHLKNDCHFEELPCVPDPCKEYVLRKDLRDHYEACKYREATCSHC 180
Db 121 SRGCAQTLTGHLVHLKNDCHFEELPCVPDPCKEYVLRKDLRDHYEACKYREATCSHC 180
Qy 181 KSOVPMIALOKHEDTDCPCVVVSCPHKCSYQTLRSELSAHLSECVNAPSTCSFKRYGCV 240
Db 181 KSOVPMIA-----188
Qy 241 FOGTNOQIKAHBASSAVOHVNLKENSLSLEKVSLLQNESYEKNKSIOSLHNOICSEI 300
Db 189 -----188
Qy 301 EIEROKEMLRNNESKILHLORVIDSOAEKLELKEIRPFQONWEADSMKSSVESLQNR 360
Db 189 -----189
Qy 361 VTELESVDKSAGOVARNRTGLLESOLSRHDQMLSVHDIRLADMDLRFQVLETSYNGVLIM 420
Db 231 VTELESVDKSAGOVARNRTGLLESOLSRHDQMLSVHDIRLADMDLRFQVLETSYNGVLIM 290
Qy 421 KIRDYKRRKOAVMGKTLISYQPPYTGFGYKMCARVYLLNGDGMKGTHLSLFFVIMRG 480
Db 291 KIRDYKRRKOAVMGKTLISYQPPYTGFGYKMCARVYLLNGDGMKGTHLSLFFVIMRG 350
Qy 481 EYDALLPMPFKOKYTLMLMDGSSRRHLGDAFKPDPNSSFFKPGEMNITASGCPVFAVQ 540
Db 351 EYDALLPMPFKOKYTLMLMDGSSRRHLGDAFKPDPNSSFFKPGEMNITASGCPVFAVQ 410
Qy 541 TVLENGTYIKDDTIFIKYIVTSDLPDP 568
Db 411 TVLENGTYIKDDTIFIKYIVTSDLPDP 438

RESULT 4
US-09-268-544B-38
; Sequence 38, Application US/09268544B
; Patent No. 6410710
; GENERAL INFORMATION:
; APPLICANT: van Eyndhoven, Winfried
; APPLICANT: Lederman, Seth
; TITLE OF INVENTION: TRAF-3 Deletion Isoforms And Uses Thereof
; FILE REFERENCE: 0575-58732
; CURRENT APPLICATION NUMBER: US/09/268, 544B
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: Patentln Ver. 2.1
; SEQ ID NO 38
; LENGTH: 347
; TYPE: PRT
; ORGANISM: Human
US-09-268-544B-38

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Query Match 56.3%; Score 1692.5; DB 4; Length 347;
Best Local Similarity 60.9%; Pred. No. 1,4e-143;
Matches 346; Conservative 0; Mismatches 1; Indels 221; Gaps 1;

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Qy 1 MESSKKMDSGALQTNPLKLTHTDRSAGTPVPEEGGKKEKPKVTEEDKCKECHLV 60
Db 1 MESSKKMDSGALQTNPLKLTHTDRSAGTPVPEEGGKKEKPKVTEEDKCKECHLV 60
Qy 61 CSPKQTECGHRCFESCMALLSSSPKCTACQESIYKDVFKDNCKREILALQIYCRNE 120
Db 61 CSPKQTECGHRCFESCMALLSSSPKCTACQESIYKDVFKDNCKREILALQIYCRNE 120
Qy 121 SRGCAQTLTGHLVHLKNDCHFEELPCVPDPCKEYVLRKDLRDHYEACKYREATCSHC 180
Db 121 SRGCAQTLTGHLVHLKNDCHFEELPCVPDPCKEYVLRKDLRDHYEACKYREATCSHC 180
Qy 181 KSOVPMIALOKHEDTDCPCVVVSCPHKCSYQTLRSELSAHLSECVNAPSTCSFKRYGCV 240
Db 181 KSOVPMIA-----188
Qy 241 FOGTNOQIKAHBASSAVOHVNLKENSLSLEKVSLLQNESYEKNKSIOSLHNOICSEI 300
Db 189 -----188
Qy 301 EIEROKEMLRNNESKILHLORVIDSOAEKLELKEIRPFQONWEADSMKSSVESLQNR 360
Db 189 -----189
Qy 361 VTELESVDKSAGOVARNRTGLLESOLSRHDQMLSVHDIRLADMDLRFQVLETSYNGVLIM 420
Db 231 VTELESVDKSAGOVARNRTGLLESOLSRHDQMLSVHDIRLADMDLRFQVLETSYNGVLIM 290
Qy 421 KIRDYKRRKOAVMGKTLISYQPPYTGFGYKMCARVYLLNGDGMKGTHLSLFFVIMRG 480
Db 291 KIRDYKRRKOAVMGKTLISYQPPYTGFGYKMCARVYLLNGDGMKGTHLSLFFVIMRG 350
Qy 481 EYDALLPMPFKOKYTLMLMDGSSRRHLGDAFKPDPNSSFFKPGEMNITASGCPVFAVQ 540
Db 351 EYDALLPMPFKOKYTLMLMDGSSRRHLGDAFKPDPNSSFFKPGEMNITASGCPVFAVQ 410
Qy 541 TVLENGTYIKDDTIFIKYIVTSDLPDP 568
Db 411 TVLENGTYIKDDTIFIKYIVTSDLPDP 438

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Db 100 -----99
Qy 181 KSOVPMIALOKHEDTDCPCVVVSCPHKCSYQTLRSELSAHLSECVNAPSTCSFKRYGCV 240
Db 100 -----99
Qy 241 FOGTNOQIKAHBASSAVOHVNLKENSLSLEKVSLLQNESYEKNKSIOSLHNOICSEI 300
Db 100 -----99
Qy 301 EIEROKEMLRNNESKILHLORVIDSOAEKLELKEIRPFQONWEADSMKSSVESLQNR 360
Db 100 -----139
Qy 361 VTELESVDKSAGOVARNRTGLLESOLSRHDQMLSVHDIRLADMDLRFQVLETSYNGVLIM 420
Db 140 VTELESVDKSAGOVARNRTGLLESOLSRHDQMLSVHDIRLADMDLRFQVLETSYNGVLIM 199
Qy 421 KIRDYKRRKOAVMGKTLISYQPPYTGFGYKMCARVYLLNGDGMKGTHLSLFFVIMRG 480
Db 200 KIRDYKRRKOAVMGKTLISYQPPYTGFGYKMCARVYLLNGDGMKGTHLSLFFVIMRG 259
Qy 481 EYDALLPMPFKOKYTLMLMDGSSRRHLGDAFKPDPNSSFFKPGEMNITASGCPVFAVQ 540
Db 260 EYDALLPMPFKOKYTLMLMDGSSRRHLGDAFKPDPNSSFFKPGEMNITASGCPVFAVQ 319
Qy 541 TVLENGTYIKDDTIFIKYIVTSDLPDP 568
Db 320 TVLENGTYIKDDTIFIKYIVTSDLPDP 347

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RESULT 5
US-09-138-277C-1
; Sequence 1, Application US/09138277C
; Patent No. 6426403
; GENERAL INFORMATION:
; APPLICANT: NAKATA, MOTOMI
; APPLICANT: NAKATA, HIROYASU
; APPLICANT: YAGITA, HIDEO
; APPLICANT: OKUMURA, KO
; TITLE OF INVENTION: TRAF FAMILY MOLECULES, POLYNUCLEOTIDES ENCODING THEM,
; FILE REFERENCE: 007898-025515
; CURRENT APPLICATION NUMBER: US/09/138, 277C
; PRIOR APPLICATION NUMBER: PCT/JP97/00512
; PRIOR FILING DATE: 1997-02-24
; PRIOR APPLICATION NUMBER: JP 34674/1996
; PRIOR FILING DATE: 1996-02-22
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: Patentln Ver. 2.1
; SEQ ID NO 1
; LENGTH: 558
; TYPE: PRT
; ORGANISM: Mus sp.
US-09-138-277C-1

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Query Match 41.7%; Score 1253.5; DB 4; Length 558;
Best Local Similarity 41.6%; Pred. No. 6,2e-104;
Matches 241; Conservative 114; Mismatches 166; Indels 59; Gaps 10;

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Qy 22 HTDRSAGTP-VFVPEEGG-----YKPKVYVTEEDKCKECHLVYKSPKQTECGH 70
Db 3 HSEDAVPAFAFIRONGNSISLDFEDTYQVEOLEEYKCAFGSHVHNHOGCGH 62
Qy 71 RFCSCHMAALLS-SSSPKCTACQESIYKDVFKDNCKREILALQIYCRNESGCAEQLT 129
Db 63 RFCCOCIRSLRELSVDPICVDKEVIKQEVFVFNCKREVLNLHYCKN-ARGCANRIT 121
Qy 130 LGHLVHLKNDCHFEELPCVPDPCKEYVLRKDLRDHYEACKYREATCSHCKSOVPMIAL 189
Db 122 LGRFODHLQH-CSFOAVPCPNESCREAMLRKDYKEHLISACRRREBKCIYCKRDIYVTNL 180

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|    |     |   |     |
|----|-----|---|-----|
| Db | 195 | CPNMCA-KIIITKEVDEHLAVCPRAEADOCPPFKHAGAVLTOKRNLQOEHHSALREHRLV  | 253 |
| Qy | 264 | KEMSNLEKRVYSLLONSVEKNKCSIQSLHNOICFEIEIEKOKEMLNESKILHLOVLI     | 323 |
| Db | 254 | LEKNVQJEEQJSDLHSLHDEQESKIQLOLAETIKLEKEFKOFAOLFGENKSFLPLNIO-VF | 312 |
| Qy | 324 | DSOAEKLEKLEIRPF-----RONNEADSMSSVYESLONRVTELESVDKSAQVARN       | 377 |
| Db | 313 | ASHIDKSMLEAQVHOLLQWNOOONKFDRLPLMEADVYKOKTTLLEND-----QR        | 365 |
| Qy | 378 | TGLLESQSLRHDQMLSVHDIIDLAMDRLFOVLETSYNGVLIKIRPKRKROEAVGKT      | 437 |
| Db | 366 | LAVLEEENKHDYHNINIKAOLSNBERFKLBEGTCKILKIMVTVIYKAKKRAVDGHT      | 425 |
| Qy | 438 | LSIVSOPPYTGFQYKMCARVYLNGDGMKQKTHLSLFVJIRGEYDALLPMPKOKVTLM     | 497 |
| Db | 426 | VSIQSQYTTSRGCRILCARVYLNGDGSGRSHLSLVFVWVRGFEISLQMPFQRYTLM      | 485 |
| Qy | 498 | LMDOGSSRRHLGDAFKPDPNSSSFKKPTGEMNIIASGCPVFAQTVLEN--GTIYKDTIF   | 555 |
| Db | 486 | LLDO-SGKKNIIMEFPKDPNNSSEFKRPGEMNIIASGCPRFAVHSLLENAKNAYIKDPTLF | 544 |
| Qy | 556 | IKVIVDTDLDP 567   |     |
| Db | 545 | LKVAVDLTDLDB 556  |     |

```

      RESULT 7  
US-09-181-958-2  
; Sequence 2, Application US/09181958  
; Patent No. 6143507  
; GENERAL INFORMATION:  
; APPLICANT: Kehry, Marilyn R  
; APPLICANT: Pullen, Steven S  
; APPLICANT: Crute, James J  
; TITLE OF INVENTION: High Throughput Compatible Assays for Receptor-Traf  
; TITLE OF INVENTION: Interactions  
; FILE REFERENCE: 9_142_Nucl.Seq  
; CURRENT APPLICATION NUMBER: US/09/181.958  
; CURRENT FILING DATE: 1998-10-29  
; NUMBER OF SEQ ID NOS: 2  
; SOFTWARE: Patentin Ver. 2.0  
; SEQ ID NO 2  
; LENGTH: 228  
; TYPE: PRT  
; ORGANISM: human  
US-09-181-958-2
```

---

```
Query Match          37.2%; Score 1118; DB 4; Length 228;  
Best Local Similarity 100.0%; Pred. No. 2, 3e+92;  
Matches 215; Conservative 0; Mismatches 0; Indels 0; Gaps 0.
```

|    |     |   |     |
|----|-----|---|-----|
| Qy | 414 | YNGVILMKIRDYKRRKROEAVMGKTLSTLSQEPYTGEGYKMKCARVYLINGDGMKGTHLSL | 473 |
| Db | 61  | YNGVILMKIRDYKRRKROEAVMGKTLSTLSQEPYTGEGYKMKCARVYLINGDGMKGTHLSL | 120 |
| Qy | 474 | FFVIMRGEYDALLPMPFKOKYTLMLMDGSSSRHLGDAFKDPPNSSSKKKTGEMNIASG    | 533 |
| Db | 121 | FFVIMRGEYDALLPMPFKOKYTLMLMDGSSSRHLGDAFKDPPNSSSKKKTGEMNIASG    | 180 |
| Qy | 534 | CEPFAAQYVLENGTYIKDDTIFIKYIVTSDLPDP                            | 568 |
| Db | 181 | CEPFAAQYVLENGTYIKDDTIFIKYIVTSDLPDP                            | 215 |

RESULT 8  
US-08-331-394-4  
; Sequence 4, Application US/08331394

```

Patent No. 5670319
GENERAL INFORMATION:
Applicant: Goeddel, David V.
Title of Invention: Tumor Necrosis Factor
Title of Invention: Receptor-Associated Factors
Number of Sequences: 66
Correspondence Address:
Address: Genentech, Inc.
Street: 460 Point San Bruno Blvd
City: South San Francisco
State: California
Country: USA
ZIP: 94080
COMPUTER READABLE FORM:
Medium Type: 5.25 inch, 360 Kb floppy disk
Computer: IBM PC compatible
Operating System: PC-DOS/MS-DOS
Software: Patin (Genentech)
CURRENT APPLICATION DATA:
Application Number: US/08/331,394
Filing Date:
Classification: 436
Prior Application Data:
Application Number: 08/250858
Filing Date: 27-MAY-1994
Attorney/Agent Information:
Name: Dregler, Ginger R.
Registration Number: 33,055
Reference/Docket Number: 897P1
Telecommunication Information:
Telephone: 415/225-3216
Telefax: 415/952-9881
Telex: 910/371-7168
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 501 amino acids
TYPE: amino acid
TOPOLOGY: linear
US-08-331-394-4

Query Match      27.8%; Score 837.5; DB 1; Length 501;
Best Local Similarity 33.6%; Pred. No. 1e-66;
Matches 196; Conservative 89; Mismatches 194; Indels 105; Gaps 17;

QY      3 SSKKMDSPALQTNPPRLKHTDTSAGTPVVPDGGYKEKFKVT-VEKDYKCEKHLVLC 61
DB      2 AAASVTPSPGLSLLP-----GFSKTLGTLEAKYLCASCKNITLR 42

QY      62 SPKOTEGGHRFCESMAALLSSSPKCTAC-----QESI---VKDKVFKDNCCKREIILA 112
DB      43 RPPQACGHRFCFLITSLSSGPQNCACVYEGLYEBGISLLESSAFPDMARREVES 102

QY      113 LQIYCRNESRGAEOULTGLHLVHLKNDCHFEEELPCVPRDCKEYLRKDLRDHVEKACKY 172
DB      103 LPAYCPND--GCTWKGTLKEYESCHGELCPFLITEC--PACKGLVRLSEKEHHTQEOCPK 158

QY      173 REATCSHCKSQVPMIALQKHEDTDCPCVYVSCPHKCSVOGTLTSLSELSAHLSECVNAPSTC 232
DB      159 RLSLSCQHCRAPCSHVDLEVHYEV-CRKEPPLTC-DGCGKKKIPETPDODHRAKSCRCVLC 216

QY      233 SFKRYGCVFQGTNOQIKAHBASSAVQHVNLKEMSNLEKRV-----LQNESV 282
DB      217 RFRHYGCVSEVETENLDHQLRLREHLALL--LSFLLEQASPGTLNQVPELQRCOI 274

QY      283 EKNSIOLHNOICSFETIEROKEMLRNNSKIHLQRYIDSOAEKLEKLEIRFPKQ 342
DB      275 LEQR-ITFERIYCVLNRREVER-----VAVTAECSSRQHLDD----- 312

QY      343 NMEADSKMSVESLQNRVLEESVDKSAGQVANRTGLLSQSLRHQMLSVHDIRLADM 402
DB      313 -----KTEALSKNKVOOLE-----RSTGL-----KDLAMADL 338

```

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QY      403 DLRFQVLEFASVNGVILMKIRQYKRRKROEAVMCKTSLISYQPEYTGFGYKMKCARVYUNG 462
DB      339 EQKVSLEVTSTYDGVFTWKISDFTKRQOEAVACRTPAITSFPAITTSRYGKMKCLRYUNG 398

QY      463 DGMKGTHTLSLFVYIMRGEYDALLPWPFKQKVTLMMDGSSRRHGDAPKPPNSSEK 522
DB      399 DGTGRGHTLSLFVYVMKGPMDALLQWPFNQKVTLMMLDH--NNREHYIDAFRPVDTSSFPQ 457

QY      523 KPTGEMNIASGCPYFAQVYLE-NGYIKNDTIFIRYIVYTSUL 565
DB      458 RPYSDMNIAAGCPLEFVSKMEAKNSYRDDALFIRAYIDLTGL 501

RESULT 9
US-08-250-858-4
Sequence 4, Application US/08250858
Patent No. 5708142
GENERAL INFORMATION:
Applicant: Goeddel, David V.
Title of Invention: Tumor Necrosis Factor Receptor-Associated Factors
Number of Sequences: 62
Correspondence Address:
Address: Genentech, Inc.
Street: 460 Point San Bruno Blvd
City: South San Francisco
State: California
Country: USA
ZIP: 94080
COMPUTER READABLE FORM:
Medium Type: 5.25 inch, 360 Kb floppy disk
Computer: IBM PC compatible
Operating System: PC-DOS/MS-DOS
Software: Patin (Genentech)
CURRENT APPLICATION DATA:
Application Number: US/08/250,858
Filing Date: 27-May-1994
Classification: 435
Prior Application Data:
Application Number:
Filing Date:
Attorney/Agent Information:
Name: Dregler, Ginger R.
Registration Number: 33,055
Reference/Docket Number: 897.1
Telecommunication Information:
Telephone: 415/225-3216
Telefax: 415/952-9881
Telex: 910/371-7168
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 501 amino acids
TYPE: amino acid
TOPOLOGY: linear
US-08-250-858-4

Query Match      27.8%; Score 837.5; DB 1; Length 501;
Best Local Similarity 33.6%; Pred. No. 1e-66;
Matches 196; Conservative 89; Mismatches 194; Indels 105; Gaps 17;

QY      3 SSKKMDSPALQTNPPRLKHTDTSAGTPVVPDGGYKEKFKVT-VEKDYKCEKHLVLC 61
DB      2 AAASVTPSPGLSLLP-----GFSKTLGTLEAKYLCASCKNITLR 42

QY      62 SPKOTEGGHRFCESMAALLSSSPKCTAC-----QESI---VKDKVFKDNCCKREIILA 112
DB      43 RPPQACGHRFCFLITSLSSGPQNCACVYEGLYEBGISLLESSAFPDMARREVES 102

QY      113 LQIYCRNESRGAEOULTGLHLVHLKNDCHFEEELPCVPRDCKEYLRKDLRDHVEKACKY 172
DB      103 LPAYCPND--GCTWKGTLKEYESCHGELCPFLITEC--PACKGLVRLSEKEHHTQEOCPK 158

QY      173 REATCSHCKSQVPMIALQKHEDTDCPCVYVSCPHKCSVOGTLTSLSELSAHLSECVNAPSTC 232

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Db 159 RSLSCQCRAPCSHVDELVHEYEV-CPKFPPLTC-DGCGKKKIPRETFQDHYRACSKCVC 216
QY 233 SFKRGCVFGQTNQOIKRAHEASAVOHVNLKEMSNLEKKVS-----LQNESY 282
Db 217 RFTHTVGCSEWETENLQDHELQRLREHLAL--LSFLEAQASPGTLNQVGPPELLQRCQI 274
QY 283 EKNKSIOSLHNOICSFEEIEROKEMLRNNESKILHLQRYDSQAEKLEKDEIRPFQ 342
Db 275 LEQK-IATFENIVCVLNREVER-----VAVTAECGRQHRLOD 312
QY 343 NWEADSKMSVESLQNRVTELESVDKSAGQVARNGLLESQLSRHQDMLSVHDIRLADM 402
Db 313 -----KIEALSNKVQOLE-----RSIGL-----KDLAMADL 338
QY 403 DLRFQVLETASVNGVLLIMKTRDYKRRKQEAVMGKTLSTSQPYTGFGYKMCARYLNG 462
Db 339 EQKVSLELVSTYDGVFTWKISDFTKRQEAAGRTPAISPAFYTSRYGKMCCLRYLNG 398
QY 463 DGMKGTHLSLFVYIMRGEYDALLPMPFKOKYVTLMLMDQSSRRHLGDAFKDPNSSF 522
Db 399 DGTGRGTHLSLFVYIMRGEYDALLPMPFKOKYVTLMLMDH-NNREHYIDAFRPDYTS 457
QY 523 KPTGEMNIASGCPVFAQVLE-NGYIKDDTIFIKYIVDTS 565
Db 458 RPYSDMNIASGCPFCPSVKMEKNSYVRDIAIFKAIYDLTGL 501

```

## RESULT 10

```

US-08-446-915-4
; Sequence 4, Application US/08446915
; Patent No. 5741667

```

## GENERAL INFORMATION:

```

; APPLICANT: Goeddel, David V.
; APPLICANT: Rothe, Mike
; TITLE OF INVENTION: Tumor Necrosis Factor Receptor-Associated Factors
; NUMBER OF SEQUENCES: 66
; CORRESPONDENCE ADDRESS:

```

```

; ADDRESSEE: Genentech, Inc.
; STREET: 460 Point San Bruno Blvd
; CITY: South San Francisco
; STATE: California
; COUNTRY: USA

```

```

; ZIP: 94080

```

## COMPUTER READABLE FORM:

```

; MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk

```

```

; COMPUTER: IBM PC compatible

```

```

; OPERATING SYSTEM: PC-DOS/MS-DOS

```

```

; SOFTWARE: patin (Genentech)

```

```

; CURRENT APPLICATION DATA:

```

```

; APPLICATION NUMBER: US/08/446, 915

```

```

; FILING DATE:

```

```

; CLASSIFICATION: 435

```

```

; PRIOR APPLICATION DATA:

```

```

; APPLICATION NUMBER: 08/250858

```

```

; FILING DATE: 27-MAY-1994

```

```

; PRIOR APPLICATION DATA:

```

```

; APPLICATION NUMBER: 08/331394

```

```

; FILING DATE: 28-OCT-1994

```

```

; ATTORNEY/AGENT INFORMATION:

```

```

; NAME: Dieger, Ginger R.

```

```

; REGISTRATION NUMBER: 33,055

```

```

; REFERENCE/DOCKET NUMBER: 897P2

```

```

; TELECOMMUNICATION INFORMATION:

```

```

; TELEPHONE: 415/225-3216

```

```

; TELEFAX: 415/952-9881

```

```

; TELETYPE: 910/371-7168

```

```

; INFORMATION FOR SEQ ID NO: 4:

```

```

; SEQUENCE CHARACTERISTICS:

```

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; LENGTH: 501 amino acids

```

```

; TYPE: amino acid

```

```

; TOPOLOGY: linear

```

```

; US-08-446-915-4

```

```

Query Match 27.8%; Score 837.5; DB 1; Length 501;
Best Local Similarity 33.6%; Pred. No. 1e-66;
Matches 196; Conservative 89; Mismatches 194; Indels 105; Gaps 17;

```

```

QY 3 SSKKIDSPGALQTNPLKHTDRSAGTPEVPEQGYEKERVKT-VEDKCYCEKCHLVIC 61
Db 2 AASTYTSQSLLELP-----GFSKTLGLRLKAYKILCSCKNILR 42
QY 62 SPKQTECGHRCFECSCMAALLSSSSPKCTAC-----QESI---VKDRYKDNCKREILA 112
Db 43 RPFQACGCHRYCSFCLTSLSSGPONCAACYEGIEGYSITLSSSAFPDMMARREYES 102
QY 113 LQIVCRNRCGABQDLTGLHLVHLKNCHEELPCVAPDCKEYVLRKDLRDHYEAKCY 172
Db 103 LPVCPND--GCTWKGTLKEYESCHGELCPPLTEC--PACKGLVRSEKHHTEQCPK 158
QY 173 REATCSHCKSQVPMIALQKHEDTDCPCVYVSCPHKCSVQTLRLSELSAHLSECYNASTC 232
Db 159 RSLSCQCRAPCSHVDELVHEYEV-CPKFPPLTC-DGCGKKKIPRETFQDHYRACSKCVC 216
QY 233 SFKRGCVFGQTNQOIKRAHEASAVOHVNLKEMSNLEKKVS-----LQNESY 282
Db 217 RFTHTVGCSEWETENLQDHELQRLREHLAL--LSFLEAQASPGTLNQVGPPELLQRCQI 274
QY 283 EKNKSIOSLHNOICSFEEIEROKEMLRNNESKILHLQRYDSQAEKLEKDEIRPFQ 342
Db 275 LEQK-IATFENIVCVLNREVER-----VAVTAECGRQHRLOD----- 312
QY 343 NWEADSKMSVESLQNRVTELESVDKSAGQVARNGLLESQLSRHQDMLSVHDIRLADM 402
Db 313 -----KIEALSNKVQOLE-----RSIGL-----KDLAMADL 338
QY 403 DLRFQVLETASVNGVLLIMKTRDYKRRKQEAVMGKTLSTSQPYTGFGYKMCARYLNG 462
Db 339 EQKVSLELVSTYDGVFTWKISDFTKRQEAAGRTPAISPAFYTSRYGKMCCLRYLNG 398
QY 463 DGMKGTHLSLFVYIMRGEYDALLPMPFKOKYVTLMLMDQSSRRHLGDAFKDPNSSF 522
Db 399 DGTGRGTHLSLFVYIMRGEYDALLPMPFKOKYVTLMLMDH-NNREHYIDAFRPDYTS 457
QY 523 KPTGEMNIASGCPVFAQVLE-NGYIKDDTIFIKYIVDTS 565
Db 458 RPYSDMNIASGCPFCPSVKMEKNSYVRDIAIFKAIYDLTGL 501

```

## RESULT 11

```

US-08-744-139-4
; Sequence 4, Application US/08744139
; Patent No. 5869612

```

## GENERAL INFORMATION:

```

; APPLICANT: Goeddel, David V
; APPLICANT: Rothe, Mike
; TITLE OF INVENTION: TUMOR NECROSIS FACTOR RECEPTOR-ASSOCIATED FACTORS
; NUMBER OF SEQUENCES: 59
; CORRESPONDENCE ADDRESS:

```

```

; ADDRESSEE: Genentech, Inc.
; STREET: 460 Point San Bruno Blvd
; CITY: South San Francisco
; STATE: California
; COUNTRY: USA

```

```

; ZIP: 94080

```

## COMPUTER READABLE FORM:

```

; MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk

```

```

; COMPUTER: IBM PC compatible

```

```

; OPERATING SYSTEM: PC-DOS/MS-DOS

```

```

; SOFTWARE: Winpatin (Genentech)

```

```

; CURRENT APPLICATION DATA:

```

```

; APPLICATION NUMBER: US/08/744, 139

```

```

; FILING DATE: 31-Oct-1996

```

```

; CLASSIFICATION: 435

```

```

; PRIOR APPLICATION DATA:

```

```

; APPLICATION NUMBER: 08/250858

```

```

: FILING DATE: 05/27/1994
: ATTORNEY/AGENT INFORMATION:
: NAME: Dreger, Ginger R.
: REGISTRATION NUMBER: 33,055
: REFERENCE/DOCKET NUMBER: P0897C1
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 415/225-3216
: TELEFAX: 415/952-9881
: TELEX: 910/371-7168
: INFORMATION FOR SEQ ID NO: 4:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 501 amino acids
: TYPE: Amino acid
: TOPOLOGY: Linear
: US-08-744-139-4

Query Match      27.8% Score 837.5; DB 2; Length 501;
Best Local Similarity 33.6%, Pred. No. 1e-66;
Matches 196; Conservative 89; Mismatches 194; Indels 105; Gaps 17;

: 3 SSKKMDSPGALQTNPPKLHTDRSAGTPVFPVPGQGYKEKFFVKT-VEDKYKCEKCHLYLC 61
: 2 AAASVTSFGSLELLQP-----GFSKTLTGTRLEAKYLCGACNKLIR 42
: 62 SPKQTEGCHRFCSMAALLSSSSPKCTAC-----QESI---VKDKYFKDNCKREILA 112
: 43 RFOAOCGHRYCSFCLTISLSPONCAACVYEGLYEGISILESSAFPDNAAREVES 102
: 113 LQIYCRNRSRGAEDLTGLHLVHLKNDCHFEELPCVPRPCKEKYLKRDLDHVEKACKY 172
: 103 LPVAPRND--GCTWKGTLKEYESCHGLCPFLLTGC--PACKGLVRLSEKHHTQECPK 158
: 173 REATCSHCKSQVPMIALQKHEDTDCPCVVVSCPHKCSVQTLRLSELSAHLSECVNAPSTC 232
: 159 RLSLQCHGRAPCSHVDLEHYEV--CPKFPPLTC--DGCCKKKIIPRETQDHYRACSKCRVLC 216
: 233 SFKRYGCVFOGTNOQIKAHESASAVOHVNLKEMSNLSLEKVS-----LLQNESV 282
: 217 RFTVHGCSSEVETENLDHQLRLREHLALL--LSSFLQAQSPGTLNQVGPPELLQRCOI 274
: 283 EKNKSIOSLNOICSEFIEIEROKEMLRNNEKSLIHLQRYDSQAEKLEKIDKEIRPRQ 342
: 275 LEOK-IATFENIVCVLNREVER-----VAATAEACSRQHRLDOD----- 312
: 343 NMEADSMKSSVESLQNTVELESVDKSAQAVARNTGLLESQLSRHDOMLSVDIRLADM 402
: 313 -----KIEALSNNVQGLE-----RSIGL-----KDLAMADL 338
: 403 DLRFQVLETSYNGVLIWKIRDYKRRKQEAVMGKTLISQPFYTGYPGYKMCARVYLNG 462
: 339 EOKVSELEVSITDGVFIMKISDFTRRKQEAVALGRTPAIFSPAYTSRYGKMKCLRYVLNG 398
: 463 DGMGKTHLSLFVYIMKGEVDALLPMPFKQKVTLMMDQSSRRHLGDAFPKPPNSSSFK 522
: 399 DGTGRGTHLSLFVYIMKGPNDALLQMPFNOKVTLMMLDH--NNREHYIDAFRPDVYSSSFQ 457
: 523 KPTGEMNIASGCPVFAQTVLE--NGTYIKDITIFIKIVYDTSDL 565
: 458 RPYSDMNTASGCPLECPYSKMEAKSYVRDAIFIKALVDLTGL 501

RESULT 12
PCT-US95-06639-4
: Sequence 4, Application PC/TUS9506639
: GENERAL INFORMATION:
: APPLICANT: Genentech, Inc.
: TITLE OF INVENTION: Tumor Necrosis Factor Receptor-Associated Factors
: NUMBER OF SEQUENCES: 66
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Genentech, Inc.
: STREET: 460 Point San Bruno Blvd
: CITY: South San Francisco
: STATE: California

```

```

: COUNTRY: USA
: ZIP: 94080
: COMPUTER READABLE FORM:
: MEDIUM TYPE: 3.5 inch, 1.44 Mb disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: patin (Genentech)
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: PCT/US95/06639
: FILING DATE:
: CLASSIFICATION:
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 08/250858
: FILING DATE: 27-MAY-1994
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 08/331394
: FILING DATE: 28-OCT-1994
: ATTORNEY/AGENT INFORMATION:
: NAME: Dreger, Ginger R.
: REGISTRATION NUMBER: 33,055
: REFERENCE/DOCKET NUMBER: 897P2PCT
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 415/225-3216
: TELEFAX: 415/952-9881
: TELEX: 910/371-7168
: INFORMATION FOR SEQ ID NO: 4:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 501 amino acids
: TYPE: amino acid
: TOPOLOGY: Linear
: PCT-US95-06639-4

Query Match      27.8% Score 837.5; DB 5; Length 501;
Best Local Similarity 33.6%, Pred. No. 1e-66;
Matches 196; Conservative 89; Mismatches 194; Indels 105; Gaps 17;

```

```

: 3 SSKKMDSPGALQTNPPKLHTDRSAGTPVFPVPGQGYKEKFFVKT-VEDKYKCEKCHLYLC 61
: 2 AAASVTSFGSLELLQP-----GFSKTLTGTRLEAKYLCGACNKLIR 42
: 62 SPKQTEGCHRFCSMAALLSSSSPKCTAC-----QESI---VKDKYFKDNCKREILA 112
: 43 RFOAOCGHRYCSFCLTISLSPONCAACVYEGLYEGISILESSAFPDNAAREVES 102
: 113 LQIYCRNRSRGAEDLTGLHLVHLKNDCHFEELPCVPRPCKEKYLKRDLDHVEKACKY 172
: 103 LPVAPRND--GCTWKGTLKEYESCHGLCPFLLTGC--PACKGLVRLSEKHHTQECPK 158
: 173 REATCSHCKSQVPMIALQKHEDTDCPCVVVSCPHKCSVQTLRLSELSAHLSECVNAPSTC 232
: 159 RLSLQCHGRAPCSHVDLEHYEV--CPKFPPLTC--DGCCKKKIIPRETQDHYRACSKCRVLC 216
: 233 SFKRYGCVFOGTNOQIKAHESASAVOHVNLKEMSNLSLEKVS-----LLQNESV 282
: 217 RFTVHGCSSEVETENLDHQLRLREHLALL--LSSFLQAQSPGTLNQVGPPELLQRCOI 274
: 283 EKNKSIOSLNOICSEFIEIEROKEMLRNNEKSLIHLQRYDSQAEKLEKIDKEIRPRQ 342
: 275 LEOK-IATFENIVCVLNREVER-----VAATAEACSRQHRLDOD----- 312
: 343 NMEADSMKSSVESLQNTVELESVDKSAQAVARNTGLLESQLSRHDOMLSVDIRLADM 402
: 313 -----KIEALSNNVQGLE-----RSIGL-----KDLAMADL 338
: 403 DLRFQVLETSYNGVLIWKIRDYKRRKQEAVMGKTLISQPFYTGYPGYKMCARVYLNG 462
: 339 EOKVSELEVSITDGVFIMKISDFTRRKQEAVALGRTPAIFSPAYTSRYGKMKCLRYVLNG 398
: 463 DGMGKTHLSLFVYIMKGEVDALLPMPFKQKVTLMMDQSSRRHLGDAFPKPPNSSSFK 522
: 399 DGTGRGTHLSLFVYIMKGPNDALLQMPFNOKVTLMMLDH--NNREHYIDAFRPDVYSSSFQ 457
: 523 KPTGEMNIASGCPVFAQTVLE--NGTYIKDITIFIKIVYDTSDL 565

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Db 187 LRVF-----ANIVAVLNKEVE-----ASHLALAASHOSQDLREHLLSLEOR 228

Qy 389 ----DOMLSVHDIRLADMRLFOVLETAASYNGVLLIMKIRDYKRRQEAVMGKTLSTLSYSP 444

Db 229 VVELQOTLQKDYLGKLEHSLRLMEASFDGTFIMKITVTKRCHESVCGRTVSLFSPA 288

Qy 445 FYTGYFGYKMCARVYLLNGDGSGKGTHTLSLFVIMRGEYDALLPMPFKOKVTLMMDQSS 504

Db 289 FYTAKYGYKLCRLYLNGDGSGKGTHTLSLFVIMRGEYDALLPMPFRNKVTFMLDQ--NN 347

Qy 505 RRLHGDAPKDPNNSSEFKKPTGEMNINASGCPVFAQTULEN--GTIYKDDTIFIKYIVDT 562

Db 348 RRLHIDAFRPDLSSASFPQSEITVNASGCPLEFPLSKLOSPKHAIVKDDTIFELKCIYDT 407

Qy 563 S 563

Db 408 S 408

## RESULT 15

US-08-446-915-2

; Sequence 2, Application US/08446915

; Patent No. 5741667

; GENERAL INFORMATION:

; APPLICANT: Goeddel, David V.

; APPLICANT: Rothe, Mike

; TITLE OF INVENTION: Tumor Necrosis Factor Receptor-Associated Factors

; NUMBER OF SEQUENCES: 66

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Genentech, Inc.

; STREET: 460 Point San Bruno Blvd

; CITY: South San Francisco

; STATE: California

; COUNTRY: USA

; ZIP: 94080

; COMPUTER READABLE FORM:

; MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: palin (Genentech)

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/446,915

; FILING DATE:

; CLASSIFICATION: 435

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 08/250858

; FILING DATE: 27-MAY-1994

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 08/331394

; FILING DATE: 28-OCT-1994

; ATTORNEY/AGENT INFORMATION:

; NAME: Dreger, Ginger R.

; REGISTRATION NUMBER: 33,055

; REFERENCE/DOCKET NUMBER: 897P2

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 415/225-3216

; TELEFAX: 415/952-9881

; TELETYPE: 910/371-7168

; INFORMATION FOR SEQ ID NO: 2:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 409 amino acids

; TYPE: amino acid

; TOPOLOGY: linear

US-08-446-915-2

Query Match 20.9%; Score 628; DB 1; Length 409;

Best Local Similarity 36.6%; Pred. NO. 4.5e-48;

Matches 154; Conservative 69; Mismatches 128; Indels 70; Gaps 13;

Qy 173 REATCSHCKSGVPMIALQKHEDTDCPCVWVSCPHKCSVOTLRLSELSAHLSECVNAPSTC 232

Db 28 RVLCTACTLSE-----NLRADEDRIKPCRKADNMLHPVSPGSLTQF-KVH-SDVAEALIMC 81

Qy 233 SFKRYGVGCTNOQIRKAHEASSAVOHVNL-----LKEMSNS-----LEKVSLL 277

Db 82 PFAVGCGSFKSSPQSMOHEATSSSHLYLLAVLAKMKSSPGSNLGSAPMAERINLSEL 141

Qy 278 QNESVERKKSISQSLANOICSEFEIEROKEMLRNNEKIIHLQVIDSOAEK--LKEIDKE 336

Db 142 Q-----LQAAVEATGDLEVDVCYRAPCCESEELALQHLVK-----EKLQAOLEK 186

Qy 337 IRPRQMWEEADSKSSVESLQNRVTELESYDVSAGVARNRTGLLESQSRH----- 388

Db 187 LRVF-----ANIVAVLNKEVE-----ASHLALAASHOSQDLREHLLSLEOR 228

Qy 389 ----DOMLSVHDIRLADMRLFOVLETAASYNGVLLIMKIRDYKRRQEAVMGKTLSTLSYSP 444

Db 229 VVELQOTLQKDYLGKLEHSLRLMEASFDGTFIMKITVTKRCHESVCGRTVSLFSPA 288

Qy 445 FYTGYFGYKMCARVYLLNGDGSGKGTHTLSLFVIMRGEYDALLPMPFKOKVTLMMDQSS 504

Db 289 FYTAKYGYKLCRLYLNGDGSGKGTHTLSLFVIMRGEYDALLPMPFRNKVTFMLDQ--NN 347

Qy 505 RRLHGDAPKDPNNSSEFKKPTGEMNINASGCPVFAQTULEN--GTIYKDDTIFIKYIVDT 562

Db 348 RRLHIDAFRPDLSSASFPQSEITVNASGCPLEFPLSKLOSPKHAIVKDDTIFELKCIYDT 407

Qy 563 S 563

Db 408 S 408

Search completed: December 19, 2002, 14:56:21

Job time : 18 secs

